

SMIRNOV, S. G.
CA

17

Determination of ascorbic acid in vitamin infusions and concentrates. S. G. Smirnov. U.S.S.R. 68,763, June 30, 1947. A dry mixt. of 2,6-dichlorophenolindophenol and NaHCO_3 in equal quantities is added to the vitamin prepn. and the mixt. is then titrated. M. Uoseh

ASR 55A METALLURGICAL LITERATURE CLASSIFICATION

SMIRNOV, S.G.

Measurement of the rH_2 in developing bacterial cultures by the use of a cell consisting platinum and antimony electrodes. Mikro-biologiya 29 no.1:142-145 Ja-F '60. (MIRA 13:5)

1. Kafedra mikrobiologii Ivanovskogo meditsinskogo instituta.
(BACTERIOLOGY equip. & supply)

SMIRNOV, S.G.

Oxidation-reduction potential in enteropathogenic and nonpathogenic strains of E. coli. Zhur.mikrobiol.epid.i immun. 31 no.11:108-111
11 '60. (MIRA 14:6)

1. Iz Ivanovskogo gosudarstvennogo meditsinskogo instituta.
(OXIDATION, PHYSIOLOGICAL) (ESCHERICHIA COLI)

SMIRNOV, S.G.

Oxidation-reduction properties and virulence of staphylococci sensitive and resistant to oxytetracycline. Antibiotiki 6 no.12:1114-1117 D '61.

(MIRA 15:2)

1. Kafedra mikrobiologii (zav. I.G. Akimov) Ivanovskogo meditsinskogo instituta.

(STAPHYLOCOCCUS)

(OXYTETRACYCLINE)

SMIRNOV, S.G., assistant

Oxidation-reduction properties of enteropathogenic *Escherichia coli*. Sbor. nauch. trud. Ivan. gos. med. inst. no 25:111-115 '62.
(MIRA 17:5)

1. Iz kafedry mikrobiologii (zav. - dotsent I.G. Akimov)
Ivanovskogo gosudarstvennogo meditsinskogo instituta (rektor-
dotsent Ya.M. Romanov).

SMIRNOV, S.S.

Some physico-chemical properties of enterococcal strains
coll. from mikrobiol. epid. i imm. 40 no. 10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000-1001-1002-1003-1004-1005-1006-1007-1008-1009-1010-1011-1012-1013-1014-1015-1016-1017-1018-1019-1020-1021-1022-1023-1024-1025-1026-1027-1028-1029-1030-1031-1032-1033-1034-1035-1036-1037-1038-1039-1040-1041-1042-1043-1044-1045-1046-1047-1048-1049-1050-1051-1052-1053-1054-1055-1056-1057-1058-1059-1060-1061-1062-1063-1064-1065-1066-1067-1068-1069-1070-1071-1072-1073-1074-1075-1076-1077-1078-1079-1080-1081-1082-1083-1084-1085-1086-1087-1088-1089-1090-1091-1092-1093-1094-1095-1096-1097-1098-1099-1100-1101-1102-1103-1104-1105-1106-1107-1108-1109-1110-1111-1112-1113-1114-1115-1116-1117-1118-1119-1120-1121-1122-1123-1124-1125-1126-1127-1128-1129-1130-1131-1132-1133-1134-1135-1136-1137-1138-1139-1140-1141-1142-1143-1144-1145-1146-1147-1148-1149-1150-1151-1152-1153-1154-1155-1156-1157-1158-1159-1160-1161-1162-1163-1164-1165-1166-1167-1168-1169-1170-1171-1172-1173-1174-1175-1176-1177-1178-1179-1180-1181-1182-1183-1184-1185-1186-1187-1188-1189-1190-1191-1192-1193-1194-1195-1196-1197-1198-1199-1200-1201-1202-1203-1204-1205-1206-1207-1208-1209-1210-1211-1212-1213-1214-1215-1216-1217-1218-1219-1220-1221-1222-1223-1224-1225-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AUTHORS: Kotin, N. N.; Mchakviti, V. I.; Rozanov, N. N.; Nepomnyashchii, I. V.;
Samson, Yu. U.; Smirnov, S. G.; Tsybul'skaya, Ye. D.

ORG: none

TITLE: An electrolyzer for producing high melting metals from molten mediums.
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TOPIC TAGS: electrolytic cell, electrolytic extraction, metal electrolytic
deposition, metal purification

ABSTRACT: This Author Certificate presents an electrolyzer for obtaining high
melting metals from molten mediums. The electrolyzer is in the form of an air-
tight chamber with a cutting element for the cathode precipitate. The chamber has
a cathode and a circular anode (see Fig. 1). The electrolyzer produces a dense
cathode precipitate suitable for electric slag melting. The cathode of the

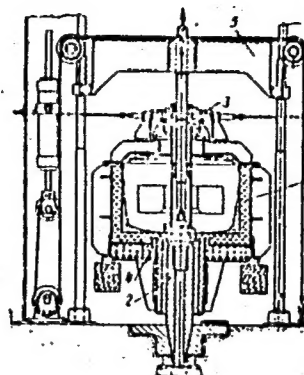
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ACC NR: AP6002914

Fig. 1. 1 - electrolyzer chamber; 2 - die; 3 - shaft of punch; 4 - cutter; 5 - cross arm.



electrolyzer is a tubular cylinder mounted in the lower part of the electrolyzer. A die is mounted in the cavity of the cathode cylinder and is used for pressing out the cathode precipitate. The electrolyzer is provided with a device for pressing out the cathode precipitate. This pressing device is in the form of a punch fastened to a shaft. The shaft is connected to a cross arm which moves in a vertical plane. The electrolyzer is also provided with a cutting element for cutting the cathode precipitate. This cutter is mounted on the shaft of the punch and is connected with the drive mechanism. Orig. art. has: 1 figure.

Card 2/2 SUB CODE:11, 09/SUBM DATE: 23May63

SMIRNOV, N.I.; SMIRNOV, P.I.; SMIRNOV, S.I.; SHARAYEVA, K.M.

Automatic mixer. Kons.i ov.prom. 17 no.2:38-39 F '62.

(MIRA 15:5)

(Mixing machinery)

SMIRNOV, S.I.; MEZHENINOV, M.Yu.

Simple stackers. Obm.tekh.opyt. [MLP] no.27:12-15 '56.

(Materials handling)

(MIRA 11:11)

SMIRNOV, S.I.

Mechanization of the uprooting of bog stumps. Torf. prom.
no.1:36 '58. (MIRA 12:12)

1. Torfopredpriyatiye Losinoye.
(Losinyi--Peat industry--Equipment and supplies)

SMIRNOV, S.I.

Composite crews having mutual responsibilities in winning machine
peat. Torf. prom. 36 no.5:34 '59. (MIRA 13:1)

1.Losinoye torfopredpriyete.
(Losinyy--Peat)

1. LONDAF, M. S.; SMIRNOV, S. I.

2. USSR 600

4. Moscow - Street Lighting

7. Street lighting in Moscow, Gor. khoz. Mosk, 21, No. 11, 1947.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

SMIRNOV, S.I., inzhener.

Two hundred and twenty-five years of street lighting in Moscow.

Gor.khozMosk. 30 no.5:27-28 My '56.

(MLRA 9:8)

(Moscow--Street lighting)

SMIRNOV, S.I.; GRUZDEVA, G.A.

Teeth with inflamed pulp treated by diathermocoagulation. Stomatologiya
36 no.4:20-21 J1-Ag '57. (MIRA 10:11)

1. Iz TSentral'noy stomatologicheskoy polikliniki, Moskva.
(TEETH--DISEASES) (DIATHERMY)

SMIRNOV, S.I.

Biomycin treatment of pulpitis as revealed in experimental and
clinical data. Stomatologiya 37 no.6:10-12 N-D '58 (MIRA 11:12)
(AUREOMYCIN)
(TEETH--DISEASES)

SMIRNOV, S.I.; DUBNOVA, Z.K., red.; CHIZHEVSKIY, E.M., tekhn. red.

[Accounting and reports in public institutions and organizations] Bukhgalterskii uchët i otchetnost' v biudzhetnykh uchrezhdeniiakh i organizatsiiakh. Rosvuzizdat, 1963. 360 p.
(MIRA 1648)

(Public institutions--Accounting)

SMIRNOV, S.I., prof.

Treatment of rumen dystonia in ruminants. Veterinariia 40
no. 4:58-63 Ap '63. (MIRA 17:1)

1. Khar'kovskiy zooveterinarnyy institut.

ACCESSION: AP4037635

S/0096/64/000/006/0022/0026

AUTHOR: Arsen'yev, Yu. D. (Candidate of technical sciences); Smirnov, S. I.
(Engineer)

TITLE: The problem of analytical determination of optimum parameters for atomic power plants by the base point method

SOURCE: Teploenergetika, no. 6, 1964, 22-26

TOPIC TAGS: similarity theory, atomic power plant, atomic reactor, nuclear reactor, atomic electric power plant

ABSTRACT: To obtain high economy of operation of an atomic power plant, the authors examined a means of selecting optimum parameters corresponding to minimum theoretical costs for electrical energy in kopecks/kwh. By using the base point method, a system of approximations was developed which made it possible to obtain simple analytical relationships capable of being refined by further calculation. The basic approach consists in replacing the numerous specific cost indices with generalized, dimensionless complex variables characterizing the technico-economic relations in the base point. These variables also contain cost reducing coef-

Card 1/2

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Analytic determination of optimum parameters of atomic electric power plants using a basic point method. Teploenergetika 11 no.6:22-26 Je '64. (MIRA 18:7)

1. Energeticheskiy institut im. G.M.Krzhizhanovskogo AN SSSR.

11YUS/R), N.P.: SMIRNOV, S.I.

Automatic line for machining profiled pipes for bushing
billets. Mashinostroitel' no.7.16-17 JI '68. (MIRA 17:8)

AFANASENKO, B.G.; DERGACHEV, S.V.; SMIRNOV, S.I.

Comparative evaluation of different methods of treating fractures of the clavicle. Vest. khir. 93 no.9:54-60 S '64. (MIRA 18:4)

1. Iz kliniki voyenno-morskoy i gosptal'noy khirurgii (nachal'nik-prof. Ye. V. Smirnov) Voenno-meditsinskoy ordena Lenina akademii imeni Kirova.

SMIRNOV, S.I.

Principles of hydrogeological classification of underground waters.
Bul. MOIP. Otd. geol. 26 no.4:93-94 '51. (MIRA 11:5)
(Water, Underground)

SMIRNOV, S.I.[translator]; SILIN-BEKCHURIN, A.I., .redaktor; SVET, Ya.M., . . .
redaktor; SHAPOVALOV, V.I., tekhnicheskij redaktor.

[Arid zone hydrology; a collection of articles. Translated from the
English] Hidrogeologiya i gidrologiya aridnoi zony zemnogo shara;
sbornik statei. Pereved s angliiskogo S.I.Smirnova. Pod red. i s
predisl. A.I.Silina-Bekchurina. Moskva, Izd-vo inostrannoi lit-ry,
1955. 372 p. (MIRA 9:4)

(Arid regions) (Water supply)

SMIRNOV, S.I.

Cadmium in the waters of the supergene zone. Geokhimiia no.5:
484-492 My '63. (MIRA 16:7)

I. F.P. Savarensky Laboratory of Hydrogeological Problems, Moscow,
(Maritime Territory--Cadmium)
(Maritime Territory--Water--Composition)

SMIRNOV, S.I.

Probability-statistical estimation of the geochemical background
in prospecting for mineral deposits. Geokhimiia no.3:333-344, Mr
'63. (MIRA 16:9)

1. Geological Institute, Academy of Sciences of U.S.S.R., Moscow.
(Geochemical prospecting)

SMIRNOV, S.I.

Probability-statistical distribution of chemical elements
in natural waters. Geokhimiia no.4:417-424 Ap '63.
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1. Savarensky Laboratory of Hydrogeological Problems, Moscow.
(Water--Analysis)

SMIRNOV, S.I.

Flow effect; concerning the hypothesis of Academician D.S. Korzhinskii and the results of his experiments. Izv. AN SSSR. Ser. geol. 28 no.10:91-98 0 '63. (MIRA 16:11)

1. Geologicheskii institut AN SSSR, Moskva.

GMIENOV, S.I.

Physicochemical conditions and the mechanism of the formation of some
supergenic minerals. Geokhimiia no.6:549-563 Je '64. (MIRA 18:7)

1. Laboratoriya gidrogeologicheskikh problem imeni Savarsenskogo, Moskva.

1961 DOKL. S.S.S.R.

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SSSR 192 no.3:647-649 My '65. (MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrogeologii
i tektonicheskoy geologii.

SMIRNOV, S. I.; Prof.;Dr.

Troitsk Veterinary Inst.

"On the technique of applying ointment into the pharynx cavity of a horse."

SO: Veterinariia 24(1), 1947, p. 27.

SMIRNOV, S.I. Prof., Dr. of Vet. Sciences; GRINETS, I.G.
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SO: Vet. 24 (6) 1947, p. 34

SMIRNOV, S. I.

"The change in clinical status of horses during water famine," In symposium: Nauch.-prakt. raboty voyen-vet. sluzhby, Moscow, 1948, p. 87-92

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SMIRNOV, S. I., Prof.
Therapeutic Clinic, Troitsk Vet. Inst.
"Treatment of spleen abcess in a horse."
SO: Vet. 25 (10) 1948, p. 24

SMIRNOV, S. I.

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SO: LETOPIS' NO. 35, 1949

SMIRNOV, S.I., professor, doktor.

Histological picture of bone marrow in healthy swine and in those affected by plague. Sbor.trud.Khar'.vet.inst. 21:79-84 '52.
(MLRA 9:12)

1. Kafedra patologii i terapii Khar'kovskogo veterinarnogo instituta.

(Swine plague) (Marrow)

SMIRNOV, S.I., professor, doktor.

Effect of excitation during restraint on the quantitative and morphological composition of peripheral blood in swine. Sbor. trud. Khar'kovsk. vet. inst. 21:85-93 '52. (MLRA 9:12)

1. Kafedra patologii i terapii Khar'kovskogo veterinarnogo instituta.
(Blood--Analysis and chemistry) (Swine--Physiology)

SMIRNOV, S.I., professor, doktor veterinarnykh nauk.

Lymphadenosis in cattle. Sbor.trud.Khar'.vet.inst. 21:390-397 '52.
(MLRA 9:12)

1. Kafedra patologii i terapii Khar'kovskogo veterinarnogo instituta.
(Lymphatics--Diseases) (Cattle--Diseases and pests)

SMIRNOV, S.I., professor, doktor veterinarnykh nauk.

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(Veterinary medicine)

SMIRNOV, S.I., professor, doktor veterinarnykh nauk.

In vivo examination of bone marrow in domestic animals and the scientific and practical significance of this method. Sbor. trud. Khar'. vet. inst. 22:364-372 '54. (MLRA 9:12)

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SMIRNOV, S.I., professor.

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animals. Veterinariia 33 no.12:39-41 D '56.

(MLRA 9:12)

1. Khar'kovskiy veterinarnyy institut.
(Liver extract) (Anemia) (Veterinary medicine)

DOMRACHEV, Georgiy Vladimirovich, prof., zasluzh.deyatel' nauki RSFSR [deceased];
SHARABRIN, I.G., prof.; SMIRNOV, S.I., prof.; CHAGIN, V.G., prof.;
KLEYNBOK, Ya.I., prof.; LYAPUSTIN, A.K., prof.; SEMUSHKIN, M.R.,
prof. [deceased]; ONEGOV, A.P., prof.; KHRUSTALEV, S.A., prof.
[deceased]; CHERKASOV, V.A., dotsent; SOLOVEY, A.S., red.; PROKOF'YEV,
I.N., tekhn.red.

[Pathology and treatment of internal noninfectious diseases of farm
animals] Patologiya i terapiya vnutrennikh nezaraznykh boleznei
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1960. 503 p. (MIRA 13:11)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh
nauk im. V.I.Lenina (for Domrachev).
(Veterinary medicine)

SMIRNOV, S.I., prof.; BOZHKO, V.I., kand.veter.nauk

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Veterinariia 37 no.1:48-50 Ja '60.

(MIRA 16:6)

1. Khar'kovskiy veterinarnyy institut.

(Cyanocobalamine)

Смирнов, С. И.

"Postnatal hemoglobinuria of cows."

Veterinariya, Vol. 34, No. 5, 1961

Smirnov, S. I. - Professor, Khar'kov Zooveterinary Institute

SMIRNOV, S.I., prof.

Ketosis in cows. Veterinariia 42 no.10:52-54 O '65.

(MIRA 18:10)

1. Khar'kovskiy zootekhnicheskovo-veterinarnyy institut.

SMIRNOV, Sergey Mikhaylovich; TERENT'YEV, Pavel Vasil'yevich;
GOICHARENKO, G.M., red.

[High-voltage pulse generators] Generatory impul'sov
vysokogo napriazheniia. Moskva, Energiia, 1964. 238 p.
(MIRA 17:12)

SMIRNOV, S. M.

"Means of Reducing the Occupational Incidence of Brucellosis,"
by S. M. Smirnov, Zhurnal Mikrobiologii, Epidemiologii i Immuno-
biologii, No 10, Oct 56, pp 86-90

"Analysis of incidence statistics for brucellosis among various groups shows that 75% of the yearly incidence of brucellosis [in the USSR] occurs among workers on animal husbandry farms, sovkhozes, and kolkhozes, and in enterprises processing animal products.... Although the number of cases of brucellosis is comparatively low, the loss of work time due to incapacitation by brucellosis on stock-breeding farms and in enterprises processing animal products is very high. Thus, for example, in 1953 the loss of time from incapacitation due to brucellosis compared with the loss from all other diseases, was as follows on stock-breeding sovkhozes: in the Kazakh SSR, 37% in the Kirgiz SSR, 23%; in the Uzbek SSR, 19%; in Rostovskaya Oblast, 16.8%; and in Stalingradskaya Oblast, 13%. In meat combines work loss attributable to the same cause accounted for 3-9% of the total number of days lost due to all diseases. These figures do not completely reveal the serious damage which brucellosis does to the health of workers. The exhaustive nature of this disease, its refractory and prolonged course, frequent exacerbations, relapses, serious complications, and the absence of a radical method of treatment often lead to partial or complete loss of work capacity. Hardly any other infectious disease of occupational origin is the cause of such a high percentage of temporary and permanent invalidism."

It is then shown that "one of the main deficiencies in the work of the public health organs in controlling brucellosis is the fact that prophylactic vaccination and other preventive measures are instituted in an area only after the disease has broken out, and then only in places where cases have occurred." This is apparent since "the incidence of the disease has decreased on farms where cases have occurred and increased on farms where no cases have been reported previously.... New brucellosis foci and flare-ups in old foci continue to occur in the Central Asian republics and in many oblasts of the RSFSR. It must be taken into consideration that the organs of the veterinary service, for all practical purposes, are still in no condition to guarantee the protection of disease-free farms against the introduction of infection or to immediately detect an incipient epizootic.... In regions considered enzootic for brucellosis, any stock-raising farm can be considered a potential brucellosis focus."

"According to the data of the Rostov, Saratov, Stavropolsk, Chkalov, and other antibrucellosis stations, if vaccinations are carried out in the prescribed manner and at the right time, the incidence of brucellosis among persons vaccinated will be '5-6 times' lower than among unvaccinated persons. It would appear that a sharp reduction in the incidence of brucellosis among the population of these oblasts could be expected. However,

this has not occurred; in fact, under ideal conditions, the actual reduction in incidence in any given oblast has not exceeded 50-60%. Two basic factors make it difficult to obtain the effect which might be expected to follow the prophylactic vaccination of workers and officials on stock-raising farms: (a) the incomplete and untimely nature of the vaccination of permanent, and especially returning and temporary workers, in active brucellosis foci, and (b) the unjustified prohibition of vaccination on so-called unthreatened animal husbandry establishments, where by decrees and instructions issued by the Ministry of Health USSR prophylactic vaccinations can be carried out only on individual farms, and then, strange to say, only after cases of brucellosis have occurred on them among workers or officials."

"The present method of prophylactic vaccination consisting of the subcutaneous injection of the dry live vaccine of the Institute imeni Gamaleya suffers from a serious deficiency: the technique of administering it is extremely complicated and labor-consuming, making extensive use of this method difficult. In addition, there is a second deficiency which reduces the epidemiological effectiveness of the subcutaneous method of vaccination: about 65% of those vaccinated exhibit a positive allergic reaction at the time of their next regular revaccination and are therefore not revaccinated even though their vaccine immunity has already been partially or completely lost. Thus, these persons are unprotected against large doses of the pathogen during the extremely dangerous calving and lambing periods. An areactive cutaneous method of vaccination which does not have the aforementioned deficiencies has proved to be completely reliable and immunologically effective for humans, according to research carried out by N. F. Zenkova under the direction of Prof I. K. Karakulov. Practicality dictates that a change-over to this method of vaccination be made even though its epidemiological effectiveness is no greater than that of the subcutaneous method. It is the immediate task of the scientific research institutes to put at the disposal of practicing physicians a reliable, simplified, areactive method of vaccination."

"Prophylactic vaccination, which is the fundamental and foremost method used by medical workers in the arsenal of antibrucellosis measures, is, unfortunately, not a radical method of controlling this infection as are, for example, vaccinations against small pox and tularemia."

The report concludes with a discussion of insurance compensation to persons incapacitated by brucellosis and says that existing laws afford the trade unions a means of forcing the managers of stock-raising farms and meat combines to comply with instructions and directives concerning the control of brucellosis.

Sum 1258

SMIRNOV, S. M.

"An Occupational Outbreak of Tularemia Among the Workers in a Meat Combine," by S. M. Smirnov, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, Vol 27, No 9, Sep 56, pp 37-43

An unusual outbreak of tularemia in October and November 1954 among workers of one of the meat-preserving combines in the Transcaucacus is described. A brief history of this outbreak, including clinical symptoms and initial diagnoses of malaria, influenza, and brucellosis, is given. Negative results from various tests and the presence of bubos characteristic for tularemia led to the final diagnosis, which was confirmed by isolation of cultures of the pathogen. After prophylactic vaccination (27 and 28 Oct) against tularemia, new cases of the disease subsided sharply among the workers and had disappeared by 9 November.

Characteristics of the outbreak and clinical forms assumed by the disease in several cases are described. An epidemiological analysis of the etiology of outbreaks observed and data from experimental investigations led to the following conclusions:

1. Under definite though not yet studied conditions among sheep, an acute epizootic of tularemia can arise; the sheep then become a dangerous source of mass infection of workers in meat combines and slaughterhouses.

2. Sheep infected with tularemia present a great danger during the period of generalized infection, which lasts from the second day after infection to the fifth or sixth day and proceeds without visible clinical manifestations.

3. The basic mechanism of transmitting infection in meat combines is contact with the blood or lymph of sheep suffering from tularemia during the period of bacteremia.

4. The probability of human infection is diminished after removal of the blood from the sheep and especially after rigor mortis sets in. As a result of this, the degree of danger from commercial meat and by-products is sharply decreased.

5. Vaccination against tularemia, which is the most radical prophylactic method, should be obligatory for workers in meat combines and slaughterhouses located in areas which have natural foci of this infection.

U.S. 100-57

SMIRNOV, S.M.

Past results and prospects in the prevention of brucellosis in the USSR.
Zhur. mikrobiol. epid. i immun. 29 no.11:4-12 N '58. (MIRA 12:1)
(BRUCELOSIS, prev. & control,
(Rus))

17(2,6)

SOV/16-59-6-42/46

AUTHORS: Feng Hsueh-yü, Cherchenko, I.I., Klimenko, Ye.P., and Smirnov, S.M.

TITLE: Book Reviews

PERIODICAL: Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1959, Nr 6,
pp 135-144 (USSR)

ABSTRACT: This is a series of reviews of: a Chinese journal on hygiene and
sanitation; a Bulgarian book on epidemiology and a Czech journal on
hygiene, epidemiology, microbiology and immunobiology.

Card 1/1

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Epidemiology and prophylaxis of brucellosis. Med.sestra 18
no.8:34-37 Ag '59. (MIRA 12:10)

1. Ministerstvo zdravookhraneniya SSSR, Moskva.
(BRUCELLOSIS)

SMIRNOV, S.M.

"Journal of hygiene, epidemiology, microbiology and immunology"
[in Czech]. Reviewed by S.M.Smirnov. Zhur.mikrobiol.epid. i
immun. 30 no.6:142-144 Je '59. (MIRA 12:10)
(CZECHOSLOVAKIA--PUBLIC HEALTH--PERIODICALS)

SMIRNOV, S.M.

Distribution of zoonoses in foreign countries. Zhur.mikrobiol.
epid.i immun. 31 no.2:122-133 F '60. (MIRA 13:6)
(ZOOZOSSES epidemiol.)

KOVARSKIY, A.G.; MEDOKS, T.S.; Prinimali uchastiye: GLEBOVA, L.F.;
SHIRNOV, S.M.; YANIN, L.V.; ZHDANOV, V.M., prof., red.;
KHISTOV, L.N., red.; KNAKNIN, M.T., tekhn. red.

[Collection of official materials relating to laboratory work]
Sbornik ofitsial'nykh materialov po laboratornomu delu. Mo-
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tion doctors, and epidemiologists] V pomoshch' vracham-
laborantam, sanitarnym vracham i vracham-epidemiologam. 1961.
462 p. (MIRA 15:2)
(MEDICAL LABORATORIES) (BIOLOGICAL LABORATORIES)
(CHEMICAL LABORATORIES)

SMIRNOV, S. M.

"The Problem of Zoonoses in the USSR"

from Bor'bas Poleznyarni, Obshchimi Dlya Cheloveka i Zhivotnykh (Zoonozy)
Moscow, 1961.

SMIRNOV, S.M. (Moskva)

Specific prophylaxis in brucellosis. Fel'd. i akush. 26 no.8:
30-33 Ag '61. (MIRA 14:10)

(BRUCELLOSIS)

SMIRNOV, S.M.; TLEUGABYLOV, M.K.; SHMUTER, M.F.; UZBEKOVA, B.R.

Epicutaneous immunization of subjects against brucellosis with
a vaccine from Brucella abortus strain 19. Zhur.mikrobiol.epid.
i immun. 32 no.1:51-54 Ja '61. (MIRA 14:6)

1. Iz Sredneaziatskogo protivochumnogo instituta Ministerstva
zdravookhraneniya SSSR.
(BRUCELLOSIS)

NIKOLAYEV, N.I., otv. red.; LENSKAYA, G.N., zam. otv. red.; PASTUKHOV, B.N., zam. otv. red.; FENYUK, B.K., zam. otv. red.; ISHUNINA, T.I., red.; AKIYEV, A.K., red.; DCMARADSKIY, I.V., red.; DROZHEVKINA, M.S., red.; ZHOVTYY, I.F., red.; KOROBKOVA, Ye.I., red.; KRAMINSKIY, V.A., red.; KRATINOV, A.G., red.; LEVI, M.I., red.; LOBANOV, V.N., red.; MIRONOV, N.P., red.; PETROV, V.S., red.; PLANKINA, Z.A., red.; PYPINA, I.M., red.; SMIRNOV, S.M., red.; TER-VARTANOV, V.N., red.; TIFLOV, V.Ye., red.; FEDOROV, V.N., red.; PARNES, Ya.A., red.; PRONINA, N.D., tekhn. red.

[Especially dangerous natural focus infections] Osobo opasnye i prirodnootchagovye infektsii; sbornik nauchnykh rabot protivochumnykh uchrezhdenii. Moskva, Medgiz, 1962. 271 p.

(COMMUNICABLE DISEASES)

(MIRA 16:5)

SMIRNOV, S.M.; METELKIN, A.I.; BELIKOVA-ALDAKOVA, V.D.; SOLOV'YEVA, N.A.

Book reviews and bibliography. Zhur. mikrobiol., epid. i
immun. 40 no.3:138-142 Mr '63. (MIRA 17:2)

GREKOV, Vasilii Ivanovich, SMIRNOV, S.M., doktor tekhn.nauk, retsenzent
GUREVICH, S.L., inzh., retsenzent; PLEMYANNIKOV, M.N., red.
[Automation of production processes in light industry
enterprises] Avtomatizatsiia tekhnologicheskikh pro-
tssessov na predpriatiakh legkoi promyshlennosti. Mc-
skva, Legkaia industriia, 1965. 322 p. (MIRA 18:10)

SMIRNOV, S.M.; MERTSALOV, Ye.N.; BUSHILA, V.T.

Reviews, criticism and bibliography. Zhur. mikrobiol., epid. i immun.
40 no.11:148-155 N '63. (MIRA 17:12)

SMIRNOV, S. M.

"Measurement of the Reflective Capacity of Minerals by Means of a Photocell and Inostrantsev Camera," Tr.Mosk. geol. -razved, in-ta, 26, 204-209, 1954

For a quantitative measurement of the reflectivity of minerals, the author proposes an instrument consisting of a vertical metallographic microscope MIM-5 equipped with a camera in which, instead of a ground glass, is placed a wooden frame with ground glass and with a selenium photocell located rigidly at one level.

RZhGeol, No 1, 1955

POLOVINKIN, Aleksandr Aleksandrovich, prof. [deceased]; ORLOV, V.I.,
kand.geograf.nauk; SMIRNOV, S.M., kand.geologo-mineralog.
nauk; VASIL'YEVA, O.S., red.; CHUVALDIN, A.M., red.kart;
MAKHOVA, N.N., tekhn.red.

[Physical geography; teachers' manual] Fizicheskaia geografiia;
posobie dlia uchitelei. Moskva, Gos.uchebno-pedagog.izd-vo
M-va prosv.RSFSR, 1959. 551 p. (MIRA 12:8)
(Physical geography)

SMIRNOV, S.M.; PERELYGINA, A.I.

Principal characteristics of the structure and ore potential of
massifs of basic and intermediate rocks in the Monostoy Range
(Buryat A.S.S.R.). Izv. vys. ucheb. zav.; geol. i razz. 2 no.6:
3-12 Je '59 (MIRA 13:3)

1. Moskovskiy geologorazvedochnyy institut im. S. Ordzhonikidze.
(Buryat-Mongolia--Rocks, Igneous)

PERELYGINA, A.I.; SMIRNOV, S.M.

Ilmenite-magnetite ores in the Arsent'yev deposit and mineral
formation in them. Izv.vys.ucheb.zav.; geol.i razv 3 no.4:75-85
Ap '60. (MIRA 13:7)

1. Moskovskiy geologiorazvedochnyy institut im. S.Ordzhonikidze.
(Selenga Valley--Ilmenite)
(Selenga Valley--Magnetite)

SMIRNOV, S.M.

Determining the moisture content in leather by its electric properties. Leg. prom. 16 no.7:26-30 J1 '56. (MLRA 9:10)

(Leather--Electric properties)

SMIRNOV, S.M.

Automatizing leather drying techniques. Leg. prom. 17 no.1:
20-23 Ja '57. (MLRA 10:2)

(Leather industry)
(Automatic control)

BERLINER, Mark Aleksandrovich, kand. tekhn. nauk.; SMIRNOV, Sergey Mikhaylovich,
inzh.; MAYZEL', M.M., prof., retsenzent.; VOLKOV, V.A., retsenzent.;
VARSHAVSKAYA, L.S., red.; KHAKNIN, M.T., tekhn. red.

[Automatic control and regulation in the leather industry]
Avtomaticheskii kontrol' i regulirovanie v kozhevennoi promyshlennosti.
Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po legkoi promyshl.,
1958. 362 p. (MIRA 11:11)

(Automatic control)
(Leather industry)

Editorial Board: V.I. Dikushin, Academician (Resp. Ed.), K.M. Shumilovskiy (Co-Ed.), Yu. B. Zaslavskiy (Co-Ed.), L.L. Tetschenko, B.I. Verkhovskiy, S.T. Kharov, L.I. Petrunov and N.G. Zeleninskaya (Secretary).

Ed. of Publishing House: P.N. Belyanin; Tech. Ed.: T.P. Polonova.

PURPOSE: This book is intended for specialists in the field of machine and instrument manufacture who use radioactive isotopes in the study of materials and processes.

COVER: This collection of papers covers a very wide field of the utilization of tracer methods in industrial research and control techniques. The topic of this volume is the use of radioisotopes in the machine instrument manufacturing industry. The individual papers discuss the applications of radioisotope techniques in the study of metals and alloys, the study of engine lubrication, metal cutting, engine performance and defects in the engine. Several papers are devoted to the use of radioisotopes in the automation of industrial processes, recording and measuring devices, quality control, flowmeters, level gauges, safety devices, radiation counters, etc. These papers represent contributions of various Soviet institutes and laboratories. They were published as Transactions of the All-Union Conference on the Use of Radioactive and Stable Isotopes and Radiation in the National Economy and Science, April 4-12, 1957. No personalities are mentioned. References are given at the end of most of the papers.

Birger, G.I., B.I. Verkhovskiy, and Ye. Ye. Ovcharenko (Piricheskii Institut Iamni P.N. Lebedeva AN SSSR i Konstruktor'skiye Byuro "Investavtomatika" WPM SSSR - Institute of Physics Iamni P.N. Lebedeva, Academy of Sciences, USSR, and Design Bureau "Investavtomatika" WPM USSR). New Type of a Radioactive Density Control

Kardash, Ya.G. (Tsentral'nyy nauchno-issledovatel'skaya laboratoriya Gosgortekhnadzora - Central Scientific Research Laboratory of "Gosgortekhnadzor" USSR). Industrial Instruments for Gamma-Ray Density Control

Valter, A.K., and M. L. Gol'din (Fiziko-tekhnicheskii Institut Akademii nauk USSR i Zavod kontrol'no-izmeritel'nykh priborov - Institute of Physics and Technology, Academy of Sciences, USSR, and Factory of Control and Measuring Instrumentation Factory). Calculation and Study of the Density of Iron-Ore Slurry on the Basis of Gamma-Ray Absorption

Vladyslav, G.B. (Ministerstvo stroitel'stva elektrosnabzheniya - Ministry for the Construction of Electric Power Stations in the USSR). Performance of Gamma-Ray Spoil Meters on Bridges

Lobanov, Ye.M. (Leningradskiy fiziko-tekhnicheskii Institut Akademii nauk SSSR - Leningrad Institute of Physics and Technology, Academy of Sciences, USSR). Application of the Gamma Ray Master Designed by LPI, Academy of Sciences, USSR

Dedyukin, S.M. (Ministerstvo tekhnicheskogo flota SSSR - Ministry of the River Fleet, USSR). Use of Radioactive Radiation in River Transport

Vaynsberg, A.Ye. (Vsesoyuznyy nauchno-issledovatel'skiy Institut tekhnicheskoy proektsionirovani - All-Union Scientific Research Institute of the Dairy Industry). Use of Radioactive Radiation in the Automatic Control and Regulation of Technological Processes of Dairy Production

Solov'yev, S.M. (Tsentral'nyy nauchno-issledovatel'skiy Institut kochevykh zhivotnovodstva - Central Scientific Research Institute of the Leather and Shoe Industry). Use of Radioactive Isotopes in the Leather Industry

SMIRNOV, S.M., inzh.

Measuring mean temperatures with an electronic potentiometer.

Izv.vys.ucheb.zav.; takh. leg. prom. no.4:148-159 '58.

(MIRA 11:12)

1. Moskovskiy tekhnologicheskii institut legkoy promyshlennosti.
(Thermometry) (Electronic measurements)

SMIRNOV, S. M., Candidate Tech Sci (diss) -- "Some problems of automatic control and regulation in the leather industry". Moscow, 1959. 13 pp (Min Higher Educ USSR, Moscow Tech Inst of Light Industry), 130 copies (KL, No 22, 1959, 117).

6.4800
6.9430

30:90
S/194/61/000/008/025/092
D201/D304

AUTHOR: Smirnov, S.M.

TITLE: Conditions for optimum useful signal levelling on a background of irregular interference

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 8, 1961, 32, abstract 8 V253 (Nauchn. tr. Mosk. tekhnol. in-t legkoy prom-sti, 1959, v. 14, 133-137)

TEXT: Optimum relationships are determined between the parameters of distribution of gaussian random error at the output of a linear system, when the interference at the output varies much faster than the useful signal. The criterion of accuracy is taken as the probability of finding the error within limits - $c < \Delta < c$. 2 references. [Abstracter's note: Complete translation]

✓

Card 1/1

SMIRNOV, S.M., kand.tekhn.nauk, dotsent

Analyzing the self-oscillations in astatic ~~relay~~ systems for automatic control. Nauch.trudy MTILP no.18:179-190 '60. (MIRA 15:2)

1. Kafedra avtomatiki Moskovskogo tekhnologicheskogo instituta legkoy promyshlennosti.

(Electric relays) (Automatic control)

BERLINER, Mark Aleksandrovich; PETROV, I.K., retsenzent; SMIRNOV, S.M.,
red.; USOL'TSEV, V.A., red.; BORUNOV, N.I., tekhn.red.

[Electric devices and methods of measuring and controlling
moisture content] Elektricheskie metody i pribory dlia izme-
renia i regulirovaniia vlazhnosti. Moskva, Gos.energ.izd-vo,
1960. 309 p. (MIRA 13:9)

(Moisture)

GASHKOVA, A.K., inzh.; SMIRNOV, S.M., kand.tekhn.nauk

Automatic control of drying systems for drying match boxes
and sticks. Der.prom. 9 no.5:3-5 My '60.

(MIRA 13:7)

(Match industry) (Automatic control)
(Drying apparatus)

LUK'YANOV, N.G.; OSKOLKOV, I.O.; SMIRNOV, S.M.

Designing units for automatic control of clocks. Priborostroenie
no.10:7-10 0 '60. (MIRA 13:11)

(Clocks and watches--Repairing and adjusting)

16.8000

S/194/62/000/006/057/232
D295/D308

AUTHOR: Smirnov, S.M.

TITLE: Approximate method of analysis of self-oscillations in two-position regulating system

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 6, 1962, abstract 6-2-133 v (Nauchn. tr. Mosk. tekhnol. in-t legkoy prom-sti, no. 18, 1960, 167-178)

TEXT: The self-oscillations of two-position regulating systems are investigated. Systems are considered the relay element of which has hysteresis and dead zone. The controlled condition is a first-order factor. An approximate method is suggested for solving the transcendental equations that determine the self-oscillation period, by replacing exponential transient characteristics by secant characteristics. Computation formulas are derived for the cases of presence or absence of a pure delay. [Abstractor's note: Complete translation.] ✓

Card 1/1

16.8000

S/194/62/000/006/056/232
D295/D308

AUTHOR: Smirnov, S.M.

TITLE: Analysis of self-oscillations in relay type astatic regulators

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 6, 1962, abstract 6-2-132 e (Nauchn. Tr. Mosk. tekhnol. in-ta legkoy prom-sti, no. 18, 1960, 179-190)

TEXT: Self-oscillations in relay type astatic automatic-control systems are considered. The analysis of systems including a position-type regulator in a unit with motor drive is carried out by the describing-function method and uses logarithmic amplitude characteristic. For a system containing an aperiodic link as the controlled object, computation formulas are obtained for determining the period and amplitude of self-oscillations in the presence and in the absence of a pure delay. [Abstractor's note: Complete translation.]

Card 1/1

SMIRNOV, S.M., kand.tekhn.nauk, dotsent

Equation of the drying curve. Izv.vys.ucheb.zav.; tekhn.prom.
no.3:47-58 '61.

(MIRA 14:7)

1. Moskovskiy tekhnologicheskii institut legkoy promyshlennosti.
Rekomendovana kafedroy oborudovaniya i avtomatizatsii tekhnologicheskikh protsessov.

(Drying)

SMIRNOV, S.M., kand.tekhn.nauk, dotsent

Charging of a capacitor through a rectifier from an a.c. network.
Elektrichestvo no.10:60-64 0 '61. (MIRA 14:10)

1. Moskovskiy tekhnologicheskoy institut legkoy promyshlennosti.
(Electric capacitors) (Electric networks)

9,2540

S/194/62/000/006/135/232
D256/D308

AUTHOR: Smirnov, S.M.

TITLE: Transient processes in rectifying devices

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika,
no. 6, 1962, abstract 6-5-62 e (Nauchn. tr. Mosk.
tekhnol. in-t legkoy prom-sti, 1961, no. 19, 135-146)

TEXT: The author gives the analysis of the transient process during charging of capacitance from AC mains with the aid of half-wave and full-wave rectifiers. The analytical calculation is performed using a method developed by the author. It is assumed that the charge on the capacitance has been collected during a large number of AC cycles. Computational relations, curves and approximate formulas are presented, from which it is possible to determine the time of voltage rise across the capacitance as well as the steady-state value of the voltage. 4 references. [Abstracter's note: Complete translation.]

Card 1/1

SMIRNOV, Sergey Mikhaylovich; KAVKAZOV, Yu.L., doktor tekhn.nauk,
prof., retsenzent; NETUSHIL, A.V., doktor tekhn.nauk, prof.,
retsenzent; MINAYEVA, T.M., red.; TRISHINA, L.A., tekhn.
red.

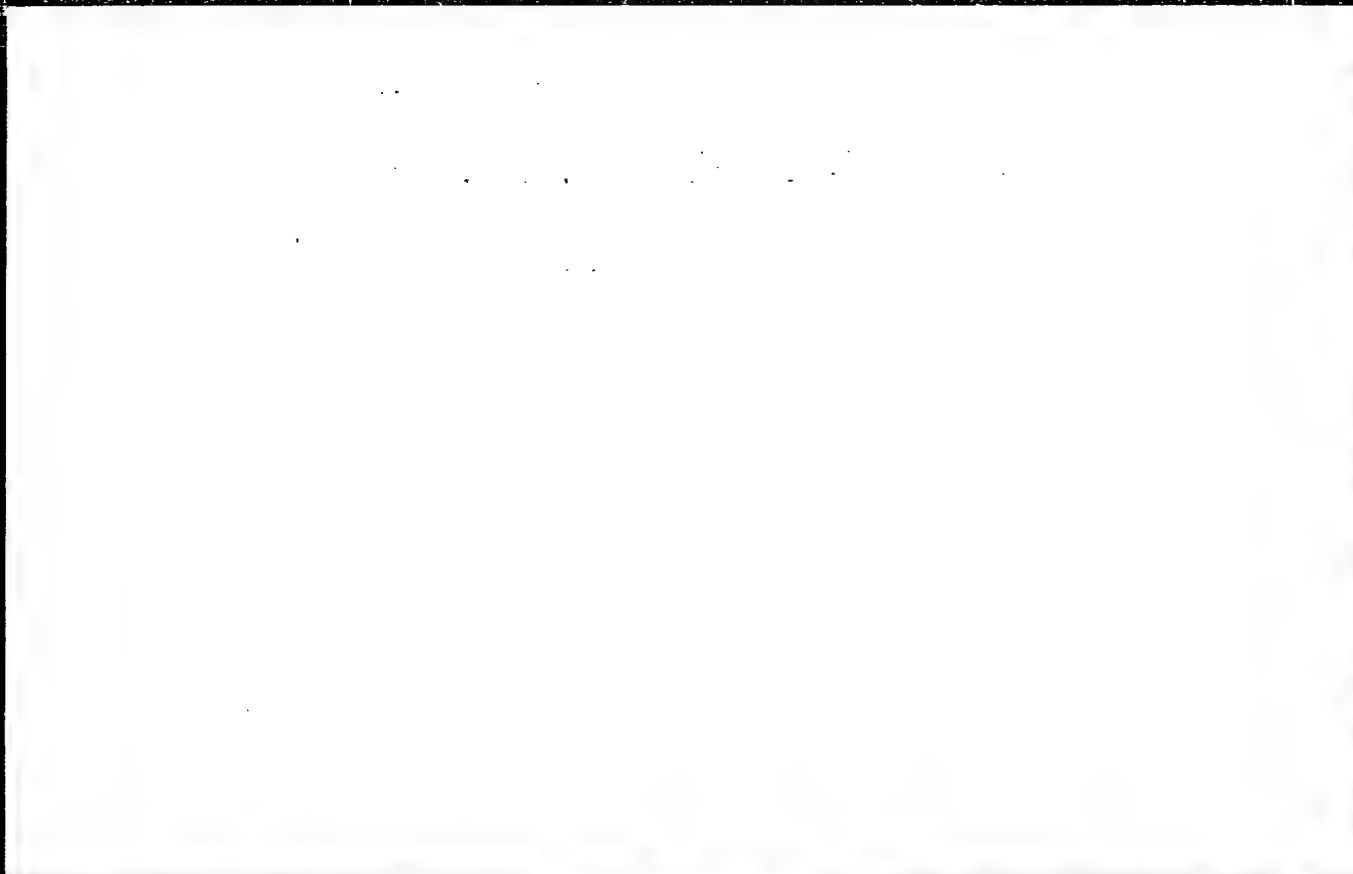
[Automation of drying systems in light industry] Avtomatizatsia
sushil'nykh ustanovok legkoi promyshlennosti. Moskva, Rostekh-
izdat, 1962. 287 p. (MIRA 15:7)
(Drying apparatus) (Automatic control)

SMIRNOV, Sergey Mikhaylovich, kand. tekhn. nauk, dots.; GRIVIN, Vladislav Vol'demarovich; YELIN, Al'bert Vasil'yevich; KOCHEROV, Anatoliy Vasil'yevich. Prinimali uchastiye: TSAKEVA, T.I.; EYGENBROT, V.M.; YEROFEYEV, A.V., kand. tekhn. nauk dots., retsenzent; SAKHAROV, Ye.V., st. prepod., retsenzent; MINAYEVA, T.M., red.; FYATNITSKIY, V.N., tekhn. red.

[Laboratory work on the course "Principles of automatic control and the automation of production processes."] Laboratornyi praktikum po kursu "Osnovy avtomatiki i avtomatizatsii proizvodstvennykh protsessov." [By] S.M.Smirnov i dr. Moskva, Gizlegprom, 1963. 322p. (MIRA 17:3)

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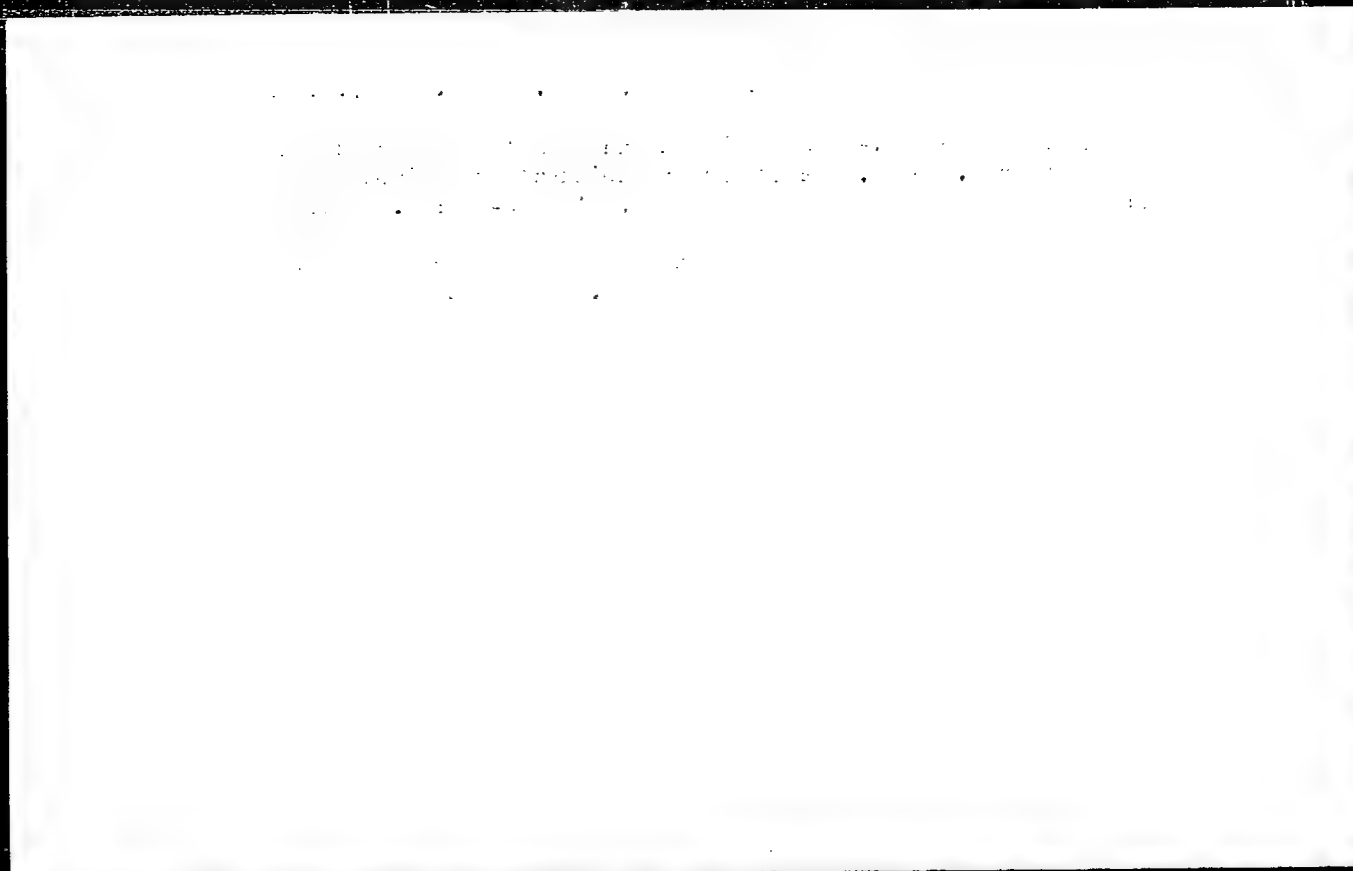


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TSAREVA, T.I., aspirant; SMIRNOV, S.M., kand. tekhn. nauk, dotsent

Approximation of the experimental transient characteristic by means of the lagging exponential diagram. Nauch. trudy MTILP no.30:283-290 '64. (MIRA 18:6)

1. Kafedra avtomatiki Moskovskogo tekhnologicheskogo instituta legkoy promyshlennosti.

SMIRNOV, S.M.; IVANOV, N.M.; RUZHENTSEV, A.S.; TILLING, N.F.; TSAREVA, T.I.

Automatic control of the operational conditions of a through-
circulation dryer for stiff leather. Kozh.-obuv. prom. 6 no.5:
24-28 My '64. (MIRA 17:12)

ACCESSION NR: AP4011323

S/0103/64/025/001/0136/0139

AUTHOR: Smirnov, S. M. (Moscow)

TITLE: Equation for the average value of a controlled coordinate in an object having distributed parameters

SOURCE: Avtomatika i telemekhanika, v. 25, no. 1, 1964, 136-139

TOPIC TAGS: automatic control, long line type plant, average value automatic control

ABSTRACT: A process in an object with a single-dimensional distribution of parameters (charge in a long RC line, heating a long rod, etc.) can be described by this Fourier's approximate differential equation: $\frac{\partial^2 u(x, t)}{\partial x^2} = T_0 \frac{\partial u(x, t)}{\partial t}$, where u is the controlled parameter, x is a spatial coordinate, and T_0 is the specific time constant. A solution of this equation is investigated: average value of the

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ACCESSION NR: AP4011323

parameter in the object is determined; the transfer function, which connects this average value with the step impulse applied to the origin of the line, is set up; the frequency characteristic and transient response curve are plotted; exactly computed and approximately determined characteristics are compared. The conclusion is drawn that, with small ωT , the variation of the controlled parameter at a point on the line lying at 0.42 from the origin is close to the variation of the parameter's average value. A sensor installed at this point would be able to control the average value of the parameter. Orig. art. has: 4 figures and 10 formulas.

ASSOCIATION: none

SUBMITTED: 13Nov62

DATE ACQ: 14Feb64

ENCL: 00

SUB CODE: CO, IE

NO REF SOV: 002

OTHER: 000

Card 2/2

BERLINER, Mark Aleksandrovich; SMIRNOV, S.M., retsenzent; USOL'TSEV,
V.A., red.; SHVYREV, S.S., red.

[Electrical measurements, automatic control and regulation
of moisture] Elektricheskie izmereniia, avtomaticheskii
kontrol' i regulirovanie vlazhnosti. Izd.2., perer. i dop.
Moskva, Energiia, 1965. 487 p. (MIRA 18:7)

ACC NR: AR6020520

SOURCE CODE: UR/0372/66/000/001/G004/G005

AUTHOR: Smirnov, S. M.

TITLE: Transfer function of a system with distributed elements for the mean value of a parameter

SOURCE: Ref zh. Kibern, Abs. 1G31

REF SOURCE: Nauchn. tr. Mosk. tekhnol. in-t legkoy prom-sti, vyp. 31, 1965, 239-246

TOPIC TAGS: function analysis, parametric equation, circuit theory

ABSTRACT: A simplified equation for the mean value of a parameter is composed with respect to systems in which the process can be described by the unidimensional Fourier equation. It is shown that exact and approximate frequency and transient characteristics are close over a sufficiently broad frequency range. The coordinate of a point whose parameter is close to the mean is determined. It is pointed out that a change in the coordinate of the control point takes place during the transient process, but the extent of this change is limited. The transfer function of a circuit is given on taking into account initial resistance. It is pointed out that systems with distributed elements the theory of lumped-element network may be em-

Card 1/2

UDC: 62-501.1

ACC NR: AM5010314

Monograph

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Smirnov, Sergey Mikhaylovich; Terent'yev, Pavel Vasil'yevich

High-voltage pulse generators (Generatory impul'sov vysokogo napryazheniya) Moscow, Izd-vo "Energiya," 1964. 0238 p. illus., biblio. 6,500 copies printed

TOPIC TAGS: pulse generator, electric engineering, pulse shape, electronic circuit, resistor, capacitor, test, test method

PURPOSE AND COVERAGE: This book describes methods of analysis and synthesis of discharge circuits by the transient processes of a generator taking into account its self inductance and the inductance of the test element. Damping factors of oscillation at pulse fronts and tail ends are admitted as additional shape characteristics of third and fourth order pulses, and nomographs and tables of pulse shape parameters based on analysis and on technical specifications are included. Experimental results of the charging process with rectified voltage, methods for calculating resistances of charging and discharging circuits of varied design, and a method for controlling discharge circuit tuning to a given pulse shape by experimental

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UDC: 621.37.3

ACC NR: AM5010314

frequency characteristics are also included. The book is intended for engineers and technical personnel concerned with the design and operation of high-voltage pulse generators, as well as for students at institutes offering courses in electrical engineering. The authors thank Prof. L.I. Sirotinskiy for his interest in this work and for valuable comments on the manuscript, and Docent G.M. Goncharenko for editing the manuscript.

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.ACC NR: AM5010314

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SUB CODE 14.10.00 SUBMCDATE: 31Oct64 ORIG REF: 032 OTH REF: 027

Cgrd 3/3

DAVYDOV, D.N., inzh.; SMIRNOV, S.N., inzh.

Work of an open-type concreting combine under cold weather conditions. *Biul. stroi. tekhn.* 15 no.1:10-12 Ja '58. (MIRA 11:2)
(Concrete construction--Cold weather conditions)